RTTY

NEWS OF AMATEUR RTTY

SEPTEMBER, 1964
30 Cents
Vol. 12, No. 9

DL1IN

HORSE TRADES

This page of the Bulletin is for use of amateurs who have RTTY EQUIPMENT FOR SALE OR TRADE and those looking for equipment to buy or trade. It is a free service and may be the means of getting someone on the air.

FOR SALE: NC300 with matching speaker and xtal calib. Very stable RTTY Recvr. 225.00. DX-100-SSB Mod only, can be adapted to FSK 125.00. SB 10 speech filter 70.00. All of the above 350.00. W9FQX/7, 4659 Cannon Avenue, Klamath Falls, Oregon 97601

FOR SALE: RTTY Channel filters, tuned, octal mount. Wide or narrow shift. Specify frequency. $3.00 each. WA6JCI, 3232 Selby Avenue, Los Angeles, Calif. 90034

FOR SALE: Two Model 15s (aluminum) Keyboard Table, Cover. Like new condx $95.00. Two Model 14 TDs, Brand new with tight tape and End on tape $65.00. All with sync motors, I will pay crating, you pay freight. W7VKO, 3109 East Roma, Phoenix, Arizona 85016

FOR SALE: FRXD in excellent condx, with sync motor, diagram and hook-up data. For 60 wpm, $43.00; for 75 wpm, $35.00. Send stamp for list of reperforators, transmitter-distributors and other items for sale. W4NZY, 119 North Birchwood Avenue, Louisville, Ky. 40206

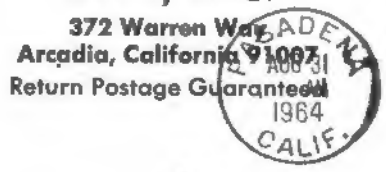
FOR SALE: Northern Radio Model 4 FSK Exciter with power supply and manuals. Variable shift with 2E26 final. Needs thermometer and minor work. Write and make offer. ARR5 AM-FM receiver 27-140 mcs. Good condx with manual. $45.00 FOB. No room in apartment forces sale. K8COI, 8½ Elmwood, Athens, Ohio 45701.

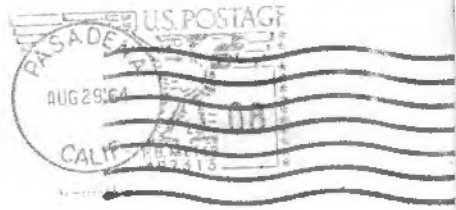
FOR SALE: Typing reperf with sync motor, keyboard, and E O L indicator, $45.00. Also have other sync motors, polar relays, 2 for $2.85. Gears, $5.00. And RTTY parts all FOB. W3WUX, 1712 Woodmere Way, Haverstown, Pa. 19083.

TRADE: Teletype gear for 16 mm sound films of World War II. Documentary. New etcs., color or black and white. State what you have and what you need in the way of Teletype gear or money. W4AIS, 7 Artillery Road, Taylors, South Carolina.

WANTED: Complete RTTY set-up, including model 15 or 19, with operating Terminal Unit. Must be good and the Best. XE1NE, Apartado Postal 2807, Av. Juarez Num 20. Mexico 1. D.F.

RTTY, INC.
372 Warren Way
Arcadia, California 91007
Return Postage Guaranteed





AIR MAIL

ARMED FORCES DAY 1964
COMMUNICATION TEST RESULTS

Performance of participating amateur radio operators was rated "excellent" by Armed Services communication experts during the communications tests conducted in conjunction with Armed Forces Day, May 16, 1964.

An unprecedented 7586 radio contacts with the amateur radio operator fraternity were made during the twelve hours and forty-five minutes of crossband operations which were scheduled for that one day.

Four military radio stations, WAR (Army), NSS (Navy), and AIR (Air Force), located in the Washington, D.C. area and NPG (Navy San Francisco), were authorized to conduct the tests and operated on fixed frequencies adjacent to the amateur bands throughout the test period. The general consensus of opinion within the military communicators' group actively involved was that the amateurs demonstrated a gratifying level of operating skill, technical know-how, and an obvious emergency military communications potential.

A commemorative QSL card has been forwarded to each contact who could be identified in the Summer 1964 edition of the Callbook. Any amateur who has not yet received a QSL card confirming his contact should address a request for clarification to the Armed Forces Day Contest, Room 5B963, the Pentagon, Washington 25, D.C. This request must include the amateur's call sign, the station worked, time of contact, and the frequency utilized by the military station.

A Certificate of Merit has been issued to amateurs who submitted a perfect copy of either or both of the Secretary of Defense messages which were transmitted during the communications test. There were 742 perfect entries for the 25 WPM CW broadcast and 620 perfect copies submitted of the 60 WPM radio teletypewriter message. Grading has been completed and entries not considered perfect have been returned to the sender together with a letter of explanation of the errors detected. As always, some perfect entries were submitted without identification of the sender. Here again, an amateur who has not yet received a reply to his entry should write to the Armed Forces Day Contest at the address listed above. It is quite possible that the entry may be among those as yet unidentified.

The complete text of the 25 word per minute Morse Code message is printed below followed by the call signs or names of individuals who received a Certificate of Merit for submitting a perfect contest entry.

ON THIS 15TH ANNUAL OBSERVANCE OF ARMED FORCES DAY THE MILITARY AFFILIATE RADIO SYSTEM PAREN MARS PAREN FACILITIES OF THE ARMY CMM NAVY AND AIR FORCE AGAIN AFFORD ME THE OPPORTUNITY TO EXTEND GREETINGS TO ALL AMATEUR RADIO OPERATORS THROUGHOUT THE WORLD PD THE VALUABLE AND VARIED SERVICES WHICH AMATEURS HAVE PERFORMED BOTH IN WAR AND IN PEACE IN THE COMMUNICATIONS AND ELECTRONICS FIELD ARE WELL KNOWN AND APPRECIATED IN THE DEPARTMENT OF DEFENSE PD MODERN TECHNOLOGY CMM WHICH HAS SHRUNK OUR WORLD AND PUSHED US INTO THE SPACE AGE HAS FORCED MANY REVISIONS IN OUR CONCEPTS OF NATIONAL DEFENSE PD I AM CONFIDENT THAT FORWARD LOOKING PROGRAMS OF THE RADIO AMATEUR SERVICES WILL CONTINUE TO HELP US IMPROVE OUR KNOWLEDGE AND OUR CAPABILITY IN AN ESSENTIAL PART OF OUR DEFENSE EFFORT PD IN THIS YEAR OF THE 50TH ANNIVERSARY OF THE FOUNDING OF THE AMERICAN RADIO RELAY LEAGUE I COMMEND ITS OFFICERS AND MEMBERS FOR THEIR MANY CONTRIBUTIONS TO THE COMMUNICATIONS ART AND TRUST THAT THE QUALITY OF THEIR LEADERSHIP IN AMATEUR RADIO AFFAIRS SO ABLY DEMONSTRATED IN THE PAST WILL PROSPER AND INCREASE IN THE FUTURE SGD ROBERT S MCNAMARA CMM SECRETARY OF DEFENSE

K1AAA	K1IEH	W1SRM	K2GKO
W1AIJ	W1IHN	W1TAP	W2GKZ
W1AOR	W1IIB	K1TAX	W2GQN
W1AXK	W1IKE	W1WPR	W2HGY
W1BB	W1LZL	K1YQZ	WB2HTL
W1BDI	W1MCG	W1ZAD	WB2ILY
W1BGW	K1MEG	K1ZVN	WA2IMT
W1BMW	W1MFJ	W1ZYO	WA2INO
W1CBT	W1MD	WB2AVK	W2JCA
W1CMW	W1MIP	WA2BGI	K2JUA
K1CUE	K1NOW	W2BVE	WA2KIP
W1ECH	W1OLS	W2BXW	W2KLD
W1ELL	W1OMN	WA2CKL	W2LRW
K1EWL	K1PLP	W2CLQ	W2LYH
K1FPB	K1QZV	K2EQP	W2MTA
W1FV	K1RHN	WB2FMK	WA2MYS
K1GGC	W1RXP	W2FPM	W2MZB
W1GPY	W1SAD	WA2FPT	W2NVB
W1GZQ	K1SDX	WB2FVD	W2OBU
K1HCH	W1SGU	WB2GJG	W2OCO

W2OE	K3LYW	WA4JYB	W5GKV-
W2OXL	W3MCG	W4KH	/MM
WA2OWQ	K3MKZ	W4KIS	W5GOG
W2PKY	K3MNT	WA4KJB-	WN5GVB
WA2PVB	K3MTT	/MM	WA5GWR
K2QDG	W3MWV	W4KJL	W5HFN
W2QND	W3NGL	WA4KPP	WN5HIA
WA2QPW	W3NHX	W4KR	W5AKE
WA2RGQ	K3NJW	W4KVO	W5IDZ
W2RN	W3NQA	W4LYV	WN5IIN
K2RQT	K3NZB	W4MHW	W5IGY
WA2RSE	W3OPO	K4MTL	W5IGZ
W2RUK	W3ORS	W4MWL	WA5JDR
W2RUT	W3OY	WA4-	WA5JFB
WA2RXO	W3RDF	NDM/1	W5JGK
K2SEN	W3RKF	W4NPG	K5JGZ
W2SIL	K3STI	W4NTE	K5JVF
K2SOX	W3SXL	W4NZP	W5KQC
WA2SRK	K3TUV	W4OI	W5NW
W2TU	K3TZD	K4OLG	W5NXZ
W2TUK	K3UFV	WA4OMI	K5MBB
K2UGZ	K3UPR	K4OMX	W5MFX
WA2UPC	W3UQX	WA4OMZ	K5OCX
K2UTV	K3USH	W4OSC	W5QMJ
WA2VSQ	W3WHK	WA4OSR	WA5QVZ
WA2VYS	W3WXB	W4PQP	W5RCF
W2WBY	W3WZC	W4PTR	W5RIH
W2WHM	W3ZLP	K4PVP	K5THK
WA2WKK	W4AAD	W4RHZ	W5USA
WA2WUB	W4ABY	W4RKQ	K5VQU
K2YQK	K4AS	W4RQB	K5YAA
W2ZMK	K4BAI	W4SLJ	K5YKS
WA2ZQH	W4BNU	WA4SSB	K5YTA
W2ZUK	K4BP	WN4SSU	W5ZU
W2ZVV	W4BWZ	W4TGB-	W6AAQ
W3ADE	W4CCC	/MM	W6AEE
W3AEA	W4CH	W4UNA	W6AM
W3AEL	WA4CTD	W4UUI	W6AWP
W3AVQ	W4CXY	W4VHX	W6AXV
W3AX	W4DAP	W4VUE	K6BAY
W3AXA	W4DDQ	W4VYB	W6BHG
W3BFF	WA4DLF	K4WH	K6BPI
W3BHK	K4DMU	W4WHF	W6BVY
W3CA	W4DVT	K4YOQ	W6BYS
W3DZL	W4EFV	W4YPI	K6CB
W3ECP	WA4EGI	W4ZM	W6CBX
W3EKL	K4EHV	K4ZSX	W6CFE
W3ELI	K4EOF	W5ACK	W6CHL
W3EML	W4EOP	K5ADQ	W6CKU
W3EOV	WA4FJM	W5AIR	W6CLB
K3FKG	W4FPW	W5AJG	K6CME
K3GIH	W4FRO	W5ARK	W6CWR
K3GOH	WA4GLC	W5BBV	K6DV
W3GOT	W4GLL	W5BCF	W6DVD
W3GUS	K4GMR	WA5BNK	K6DX
W3HDL/4	W4GNU	W5CAC	K6DYX
K3HTZ	W4HOS	W5CCF	K6EA
W3IDO	W4IJK	W5CME	W6ELT
K3ILC	W4IMC	WA5CTW	K6EPT
W3IVC	W4JJT	W5CYE	WB6EUJ
W3JFP	W4JJU	W5DWB	W6EXQ
W3JHR	K4JKK	W5EJV	W6EY
W3JRV	WA4JWV	WA5EQQ	W6FB
W3JSA	W4JXD	WA5GDF	W6FCX
W3KDF	K4JXG	W5GJH	W6FHI
W3KIP			K6FL

W6FLW	K7FDB	K8LXJ	W9JAM
W6FYN	W7FIX	K8MFO	K9JSM
W6FYW	W7GAQ/6	W8MHP	K9JVV
W6GGC	W7GVG	W8NEM	W9JYO
K6GK	K7GXO	W8OMY	W9KCR
W6GNO	W7HNA	W8PHM	WA9KJJ
WB6GRU	W7HWD	W8QLJ	W9KVJ
W6GUQ	W7IVL	W8QQK	K9PEN
W6GYH	W7JMH	W8QWE	K9QMJ
K6GZ	W7KEG	K8RFU	W9RAR
W6HSA	W7KQV	W8RLR	W9TCV
WA6IQA	W7KX	W8SQU	W9TGB
W6ISQ	K7KYG	K8SUX	W9TVN
W6JNX	W7LFA	W8TLW	W9UIN
W6JUS	W7LPM	K8TWW	W9VHD
W6JXK	W7MAE	W8TZO	K9VPL
W6KF	W7MCU	W8VMP	W9VUD
WB6KFI	W7NUN	K8VOR	W9WNB
WA6KFN	W7NWA	W8VPC	K9YMU
K6LKD	W7OCX	K8VWN	W9YNK
K6MHW	K7PBZ	W8VZ	W9YPO
W6MMG	W7PPC	W8WVL	W9ZEN
W6MSR	W7QLL	W8WXO	WAØABO
W6NBX	K7QWP	W8ZCW	WØAGI
W6NG	K7SPH	W8ZJY	WØAGJ
W6NRK	W7SRN	K9AHH	WØAH
W6OFK	W7TIQ	K9AIR	WØAJL
K6OGE	K7VJU/6	W9ANB	WØAWM
W6OJW	W7VM	W9ARM	KØBAT
W6OSU	W7YKG	K9ARW	WØBES
W6PCP	W7ZT	W9BMJ	WØBHA
W6PLS	K7ZVA	K9BRL	WAØBPE
W6QLU	WA8AFQ	W9BRY	WAØBPR
K6QXP	W8BTW	W9BVE	WØCCM
W6RDK	W8CJN	W9CHD	WAØCCP
W6RT	K8COU	W9CQH	KØCDG
WA6ROU	W8CYN	W9CXY	KØCST
W6RXT	W8DAE	K9DCV	WØDFP
W6SAW	W8DD	W9DGA	WØECE
WB6SCF	WA8DDI	WA9DHI	KØEHO
K6SHZ	K8DIU	W9DNY	WØFDJ
K6SKT	W8DJD	K9DUI	WØFEO
K6SWL	W8DQL	K9DXB	KØIDV
W6SWR	W8DSX	W9EGR	WØIQC
W6TZK	WA8DYN	K9EIV	WØJMB
WA6USU	W8DYY	W9EOK	WØJHS
WA6UWV	K8EQN	W9ERW	WØJHY
W6VPV	WA8FBQ	WA9-	WØLGG
W6WAW	W8FFK	FDU/6	WØLOE
W6WLI	WA8FIC	W9FKH	WØLQK
W6WPF	W8FLA	WA9FMQ	WØOKH
W6WWQ	W8GMX	W9GCX	KØPHD
W6WXO	W8GTL	W9GMR	WØPYX
W6WXX	W8HCR	W9GQY	WØQQG
K6YKG	K8HKU	K9GSK	KØRAL
W6ZLF	W8HZA	K9GTZ	WØRGS
W6ZPX	W8IJV	WA9HDP	WØRSZ
W7BJY	W8JBQ	W9HOA	WØRZU
K7BPR	W8JGI	W9HUF	KØSQB
W7CWN	K8KIR	W9HUZ	WØUSL
W7CZY	WA8KKD	W9HVP	KØWMD
W7DIE	WN8KLK	W9IDO	KØWWI
W7EKK	WN8KPO	K9IEI	KØYTA
W7ESN	WN8KYF	W9IFS	WØ-
K7EWZ	W8LEX	K9ISP	ZWK/6
W7EXT	K8LOU	K9IZD	I1GO

KH6AO KH6BGW WH6EUI KH6FX KL7DG KL7ETO VE1AJT VE6VV
KH6AX KH6EVU KH6EWA KH6UK KL7DQD KP4HQ VE3EYN VK3KF

ABERNETHY, S. C.
ALEXANDER, Charles P.
ANSTAETT, R. E., Jr.
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BAILEY, Loren E.
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BEAM, Jack G.
BEASLEY, W. E.
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BURTON, D. W.
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CARTER, Gerald G.
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KELLEY, James E.
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LEE, Karl W.
LEE, Ronnie E.
LESNIAK, Leonard T.
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MARZ, Frank H.
MAXWELL, R. I.
MCANNALLY, Joe C.
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MCGUIRE, John J.
MCREYNOLDS, Max C.
MORTON, James L.
O'NEILL, James J.
PARSONS, William A.
PASTOR, Joseph M.
PENNINGTON, Melvin H.
PERSINGER, Donald W.
PRICE, James
PRICE, Jimmie C.
PULVERMACHER, Raymond
QUIST, Lynn
RADIO GANG, USS TATNALL (DDG-19)
RAMOS, Larry
RANEY, H. J.
REEVES, Norman R.
READ, Walter A.
REWIS, J. C.
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RIVETT, Stanley E.
RIZZO, A. S.
ROGERS, Richard F.
RUPP, John D.
RYAN, Norman A.
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STEWART, John H., Jr.
STOUT, Carl W.
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VANDERBURGT, A. J.
WEBB, Gary G.
WEST, George W.
WILLIAMS, F. K.
WILLIAMS, Lloyd M.
WILLIAMS, Susan

The complete text of the 60 words per minute teletypewriter mesage is printed below followed by the call signs or name of the successful participants who submitted perfect copies of the message.

THE COORDINATED EFFORTS OF ARMY CMM NAVY AND AIR FORCE MILITARY AFFILIATE RADIO SYSTEM PAREN MARS PAREN FACILITIES AGAIN AFFORD ME AN OPPORTUNITY TO EXTEND GREETINGS TO ALL AMATEUR RADIO OPERATORS THROUGHOUT THE WORLD ON THIS 15TH ANNUAL OBSERVANCE OF ARMED FORCES DAY PD THE VARIED AND VALUABLE SERVICES WHICH RADIO AMATEURS HAVE PERFORMED IN WAR AND PEACE IN THE COMMUNICATIONS AND ELECTRONICS FIELDS ARE WELL KNOWN AND APPRECIATED IN THE DEPARTMENT OF DEFENSE PD MODERN TECHNOLOGY WHICH HAS PUSHED US INTO THE SPACE AGE AND SHRUNK OUR WORLD HAS FORCED MANY REVISIONS IN OUR CONCEPTS OF NATIONAL DEFENSE PD I AM CONFIDENT THAT FORWARD LOOKING PROGRAMS OF THE RADIO AMATEUR SERVICES WILL CONTINUE TO HELP US IMPROVE OUR CAPABILITY AND KNOWLEDGE IN AN ESSENTIAL PART OF OUR DEFENSE EFFORT PD IN THIS YEAR OF THE 50TH ANNIVERSARY OF THE FOUNDING OF THE AMERICAN RADIO RELAY LEAGUE I COMMEND ITS OFFICERS AND MEMBERS FOR THEIR MANY CONTRIBUTIONS TO THE COMMUNICATIONS ART AND TRUST THAT THE QUALITY OF THEIR LEADERSHIP IN AMATEUR RADIO AFFAIRS SO ABLY DEMONSTRATED IN THE PAST WILL PROSPER AND INCREASE IN THE FUTURE SGD ROBERT S MCNAMARA CMM SECRETARY OF DEFENSE

K1AAA W2JAV K3LTI W4KZF
W1AXK K2JTU W3MHD W4MGT
W1BGW K2KAQ W3MWV K4MKO
W1EFF W2KDE K3MYW W4MWL
W1FGL W2KLD W3NMP WA4NDM
K1GGG W2KQZ W3NNV W4NWK
W1GPY K2KUC W3NQA WA4OCY
K1HCH WA2LKF W3PQZ W4OFV
K1IEH W2LKP W3RCJ W4OQN
W1IRH W2LVW W3RDF W4OSO
W1KAY K2MWN W3SXL K4PAN
W1KOT W2MXB W3TUX W4PIF
W1MCG W2MXN K3TZD K4PME
W1MEG W2MZB W3UDG W4QCE
W1MFJ W2OKO W3UKO K4QEU
K1NAG W2ORX K3UPR K4QLH
K1OCS K2OWC W3USA WA4-QZG/4
W1OHM K2OWD W3VQX W4RNY
W1OMN W2PEE W3VYY W4RQB
K1OOZ WA2QFK W3WAL W4RWM
K1OQA WA2QOI K3WGV W4SCP
W1OQC WA2QPW W3WLF K4SCP
W1OUG K2RJF W3WVX WA4TFF
K1PLP WA2RSE W3WXB K4TKU
K1SDX W2SMX K3YGS W4TQD
K1TZO K2SOX W3YPI K4UMK
W1UGV K2SQL K4ACZ W4USA
K1USN W2SUH W4AIV K4UZI
K1YZG W2TAM W4AIY W4VHX
K2AXM K2ULY WA4AVI W4VUE
WA2BEI K2VAM W4AWY K4WPL
WA2BGI K2VRK W4BCO K4WRN
W2BLV K2VBJ W4BRH W4WUX
W2BVE WA2-WDW W4CBW W4YOA
W2BXW W2WNN W4CCC W4ZXI
WB2CTU WA2WWF K4CHE/6 W4ZZV
K2CWI WA2YQK WA4ECY W5ANH
W2DLT K2YQK WA4EHM W5AJG
WA2DMY WA2YXX K4EHV W5APM
W2DXD WA2YZN K4EID W5ARK
K2ECQ W2ZKY W4EKS K5AVR
K2EID W2ZMK W4FJ W5AWK
WA2ELE WA2ZVL K4FVO W5BOT
WA2ELK W3BHK W4GOF W5BW
WA2EMB W3CA K4GZS K5CIL
K2EQP W3CRO K4HNT WA5CKG
WB2GJG W3DJZ WA4HSM W5CME
K2GOS K3ECF K4IFS WA5CON
WA2GPF K3ENA W4IMZ W5CYE
W2GQN W3EOV K4IQV K5DNH
WA2GSO K3ETV W4ISM W5DVV
WA2GTH K3FMH W4JJT W5DWB
K2GYX K3GBV W4JJU W5EDZ
WA2HDP K3GGQ K4JJZ W5EJV
W2HHP W3GUS K4JKK W5FGA
WA2HIK W3HLD K4JPR K5GCT
WB2HPC W3JNE K4JXG W5GJH
W2HWH W3JRV W4KH W5GMM
WB2IGL W3KQE K4KHT K5GNE
WA2IKT K3LDD K4KKZ WN5IBY
W2ISK K3LLI W4KR W5IDZ
W5IGY WB6FTD W6YOK K8MYF
K5IOB K6GB W6ZVV W8OMY
K5IOC W6GCG WA6ZXT W8QWE
K5JCQ W6GGC K6ZYU K8RJI
K5JGZ WA6GHC K7AEY W8RRE
K5KEN W6GYH K7BOG K8SOE
W5KQC K6GZ W7EQU W8SQU
W5KVM W6HBU W7ESN K8SUX
W5LDL W6HKB W7EVW W8TLW
W5LHX K6HWV W7EYF K8TQR
W5LPZ WA6IBF W7EYW K8TXT
K5MBB WB6IIV K7FDB W8TZO
K5MCM W6ITR W7FIX W8UUS
K5MKA W6JDN W7GAL W8VMP
K5NCW W6JWF W7GVG W8YFX
W5OOQ W6JXK K7IVL K8YIF
W5PZA W6KF W7JMH K8YJQ
W5QBU K6KFF K7JZT W8ZEP
W5QFA W6LDG W7KEG W8ZJY/4
W5QGU W6LFF W7KX W8ZYW
K5RBA W6LHV W7LPM W9AZW
W5RCF W6LIP W7MCU W9BGX
K5RDP WA6LZB W7MEV K9BPO
W5TCZ K6MDD W7PHG K9BRL
W5THK K6MLR W7PPC K9BSL
W5TYI K6MNZ W7PRG W9BWI
W5USA WA6MQL K7QWP W9CAV
K5UWE W6MTJ W7SNY W9DGA
K5VHM WA6NDZ W7SRM W9DGV
W5WEI W6NQH W7TMA K9DOF
W5WUU W6NRK W7TYG K9DPU
W5YCQ W6NRM W7TYR K9DUI
W5YIJ WA6NUH W7VKO W9DUM
W5YJ W6OJF W7VPH W9DVJ
K5YKS W6OQI W7YWF W9EEL
W6AAQ W6OWP K7ZIR K9EHP
WA6AAY WA6OXR W7ZT K9ENU
W6AEE W6PDD W7ZXM W9ERW
WB6AQR K6PDR K8ACC W9FAC
K6ARR W6PTN WA8AFQ W9FZC
W6ASH K6QMJ WA8BOT K9GFN
W6AXV W6QQM W8BTW W9GMR
K6BAY WA6QWI W8CJD K9GSK
W6BFA WA6RBT W8CJT K9GTZ
W6BHG W6RMM W8CRY WA9HDP
W6BIK W6SCQ K8CSG W9HOA
K6BPI W6SCR K8CTI WA9HRH
W6BVY K6SEZ W8DBR WA9IBB
W6CAL K6SHZ W8DFA WA9JBL
K6CCJ WA6SJZ WA8DYG WA9KEJ
W6CG K6SLA W8FAX WA9KJJ
W6CQI K6SNA W8FEU K9KVA
WB6CUB K6SWL W8FWG K9LGJ
K6CUD W6SWR WA8FYF K9OJQ
WB6DBD K6TEH W8GKN W9OPI
W6DOU K6TEN W8GTL K9OXA
WB6DRY WA6UAO K8HTS K9PEN
WA6DTH W6UXM W8IJV K9QKC
K6DYX W6VBU K8INR W9QKF
WA6DZM W6VHF K8JHA K9QNV
W6ECP WA6VVR K8JIC K9RUK
W6EFM K6WBC W8KJK K9TKN
W6ECZ W6WLI W8KPT W9TVN
K6EPT W6WPF W8LEX W9UMJ
K6FL WA6WXJ K8LXJ W9VDC
W6FLW W6YDK W8MBB K9WEH

K9WJR	WØABA	WØBHA	WØEHO	WØHHS	WØLQV	KØQVM	KH6AOL
K9WMP	WØAJL	KØRTJ	KØEII	KØHPQ	KØLTK	KØQVN	KH6AX'
K9WOQ	WØALW	KØCCP	KØEQH	WØHVA	KØMAL	WØRSP	WH6EUI
K9ZBY	WØAPF	WAØCOR	KØFLK	KØHZO	KØOJQ	WØTUH	KL7DTR
W9ZFA	KØAQO	KØCZO	WØFQW	KØIQR	WØOKH	WØWWI	VE3CM
W9ZGC	KØATZ	WØDFP	WØFUH	WØJHS	KØOPZ	WØYPT	VE3IR
KØAAR	KØBEC	KØDOM	WØGJN	WØJMB	KØPHD	KH6AO	VK3KF

BAKER, Jesse L.
BAWDEN, C. R.
BELLEROSE, E. J.
BENCINI, Franco L.
BERNRITTER, Steven
BOWDEN, C. R.
BROWN, Robert G.
BUREAU OF MINES ARC (PITTSBURGH)
BURTON, D. W.
CLEAL, W. R.
COLE, Robert E.
CRELIN, Robert R.
DAVIS, Douglas T.
EDWARDS, Willie H.
ENGEL, Roberto W.
FARRELLY, Terry
GIUNTA, J.
GOODMAN, David J.
HALLOWELL, Jimmy K.
HARDIN, Dewey J.
HARRIS, Paul S.
HERBERT, W. J., Jr.
HOLT, Robert V.
HOYT, Duffy E.
JAMES, Rodney A.
JOHNSON, Donald E.
KENNEDY, C. J. W.
LEE, Ronnie Earl
LIGON, John L. (Mrs.)
LUND, Donald S.
MANCINI, Dante R.
MENADIER, Paul T.
PAPEZ, C. J.
PENNINGTON, Melvin H.
POTTER, Roy A.
PRICE, Jimmie C.
QUIST, Lyn C.
RADIO GANG, USS TATNALL (DDG-19)
RADIO GANG, USS CHARLES R. WARE (DD-865)
RADIO GANG, USS WATCHMAN (AGR-16)
RADTELESOCIETY OF SOUTHERN CALIF.
RANDOLPH AFB, TEXAS
RANEY, H. J.
RIZZO, A. S.
ROBERTS, Conrad E., Jr.
SHAFFER, Robert R.
SMITH, Victor E.
STEWART, James E.
TAYLOR, James P.
TUNKS, Richard D.
USN & MCRTC, Lawrence, Mass.
USS GUADACANAL (LPH7) COMM (Radio) Div.
USS SHANGRI-LA
VISALLI, Joseph
WENDT, Frank E.
WYNN, Neal B.
YOUNG, Joseph D.

"LETTER STATES, I CLAIM THE FIRST QSL CARD EXCLUSIVELY RTTY"

RADIO TELETYPE CONFIRMATION

To _____ Confirming Two-way Teletype Contact _____ 196__

Time _____ GMT Band _____ Your Signal _____ % Solid Copy

W4AIS

Printers: Model 15 _____ Converter CV-89 A _____ Receiver SX 117

Transmitter: 100 V _____ Amplifier 4-1000 A _____ Ant: TA-33 ___

George D. Tate - 7 Artillery Rd. - Taylors, S. Carolina

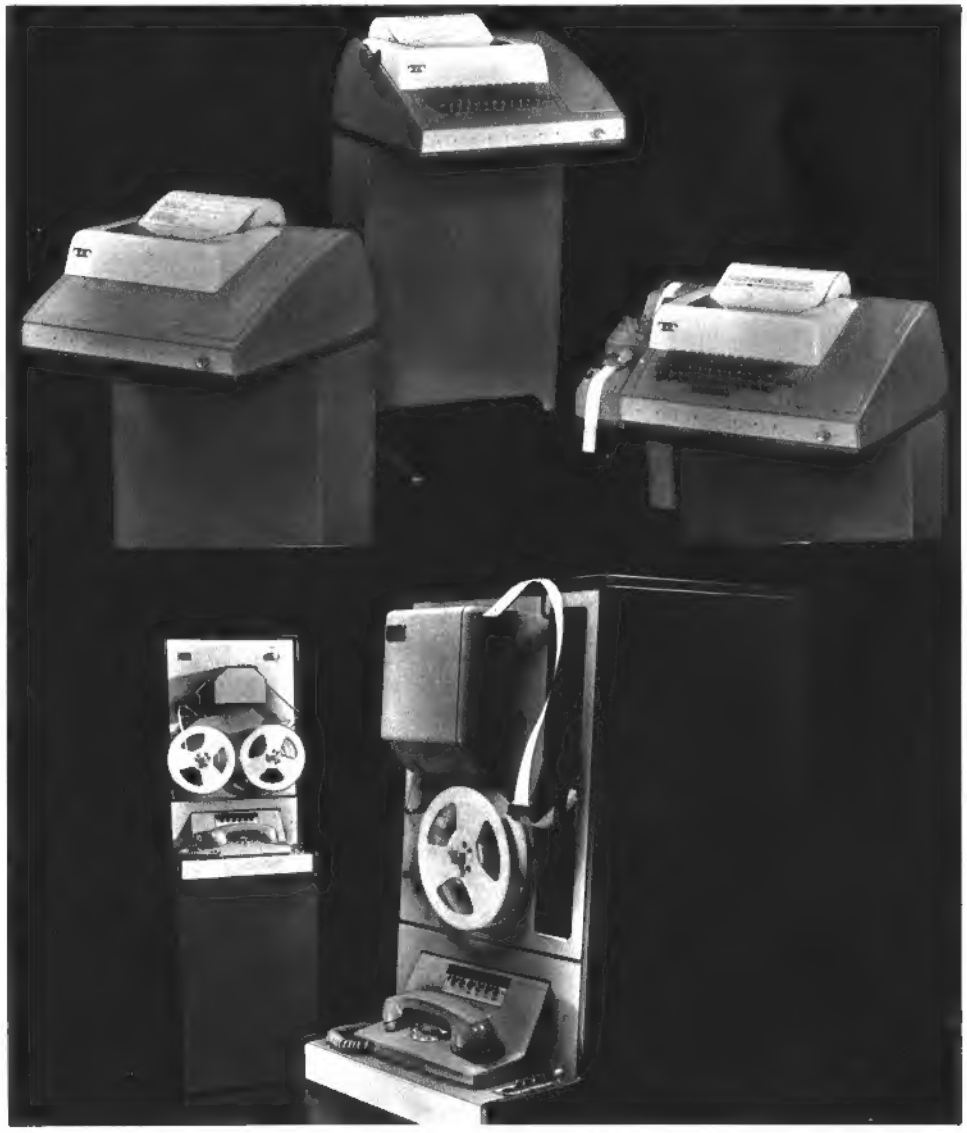
WIDE USES OF TELETYPE EQUIPMENT DESCRIBED IN NEW BROCHURE

"How Teletype equipment can make all your data communications faster, more accurate, less costly" is the title of a new 6-page brochure published by Teletype Corporation.

The illustrated brochure is written in non-technical terms to acquaint users and potential users with new model Teletype equipment and their general applications. By discussing a number of applications, the brochure shows how Teletype systems can be used for such purposes as processing orders, centralizing purchasing of supplies, controlling inventories, and communicating with computers.

The new Teletype models described in the brochure are the standard-duty Model 32 and Model 33 series, the heavy-duty Model 35 series, and the Telespeed 1,050 words-per-minute tape-to-tape sets.

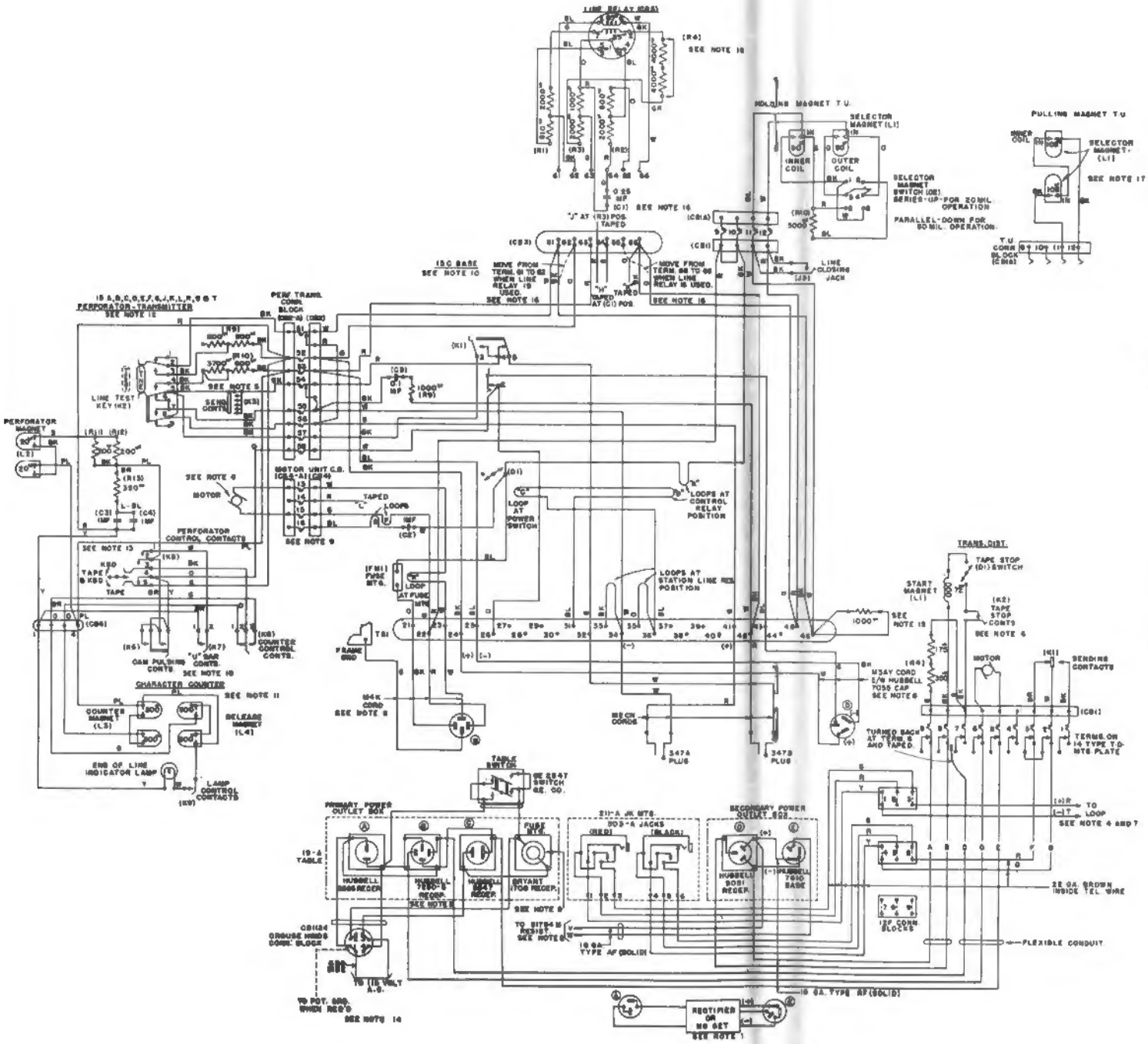
Free copies of the brochure are available upon request. Write to: Teletype Corporation, Dept. SP-41, 5555 Touhy Ave., Skokie, Ill. 60078.



BELL SYSTEM PRACTICES
TELETYPEWRITER STATION
INSTALLATION & MAINTENANCE

SECTION P90.954
ISSUE C JUNE 1958
LONG LINES DEPT.

LESLIE JOHNSON, WA9HDG
168th & Kilpatrick Aves.
Tinley Park, Ill. 60477



19 TYPE TELETYPEWRITER
TYPICAL ARRANGEMENT
115 VOLT
A.C. POWER
SIMPLE OPERATION WITH 18C BASE
18A TABLE

NOTES

1. (a) WHEN A M-6 SET IS USED, AN 81754M RESISTOR UNIT IS ALSO REQUIRED.
(b) FOR VOLTAGE SETTINGS SEE BSP P31.101 FOR RECTIFIERS, BSP P31.105 FOR M-6 SETS.
2. WHEN AN 81754M RESISTOR UNIT IS NOT USED, TAPE THE "V" AND "W" LEADS.
3. ORDERING INFORMATION FOR TABLE ACCESSORIES CAN BE OBTAINED FROM DRAWING ED 61231-013.
4. FOR DUPLEX OPERATION SEE APPROPRIATE BSP SECTIONS AS REQUIRED.
5. STRAP THE 3700 OHM PORTION OF (R10) FOR 60 MIL OPERATION. SEE BSP P30.412 PLAN M2.06.
6. FOR WIRING DIAGRAMS OF COMPONENT UNITS, REFER TO BSP SECTIONS AS FOLLOWS:

		IBA TABLE
14 TRANS-DIST.	P36.351	
15 BASE	P36.301	BELL LAB. DWG. 88-84068-01
15 MOTOR UNIT	P36.301	
E15 RELAY	P31.161	
15 TYPING UNIT	P36.301	
18 PERF.-TRANS. MOTOR-GEN. SET	P36.352	
RECTIFIERS	P31.105	
	P31.101	

7. PROVIDE WAVE SHAPE SETS AND SWITCHBOARDS AS REQUIRED. SEE BSP SECTIONS P15.001, P30.650, P50.101, AA388.002 AND AB84.026.
8. SEE BSP P30.401 FOR COLOR CODE OF OLDER TYPE CORDS.
9. FOR CAPACITY OF RUSTROHM OR FUSTATE REQUIRED, SEE BSP P81.102; FOR CAPACITY OF FUSES REQUIRED, SEE BSP P81.151.
10. A 15A OR 18B BASE MAY BE USED INSTEAD OF A 15C. SEE SECTION P90.905.
11. FOR OPERATION OF CHARACTER COUNTER SEE BSP AB84.100.
12. NO. 15B, N AND P PERFORATORS MAY ALSO BE USED, HOWEVER, THEY HAVE A SOMEWHAT DIFFERENT WIRING ARRANGEMENT, PRIMARILY IN THE CHARACTER COUNTER. SEE BSP P36.328.
13. KEYBOARD CONTROL OPERATING LEVER FUNCTIONS
KEYBOARD POSITION - PERF. CONTROL CONTS. ALL OPEN, PUNCH MAGNET WILL NOT BE ENERGIZED, CAN TRANSMIT DIRECT KEYBOARD BUT NOT FROM TRANS. DIST.
TAPE & KBD POSITION - LOWER PAIR PERF. CONTROL CONTS. CLOSED, PUNCH MAGNET ENERGIZED DUE TO OPERATING SPRING OF THE CAM PULSING CONTS. RIDING INTO INDENTS ON TWO OF THE TRANSMITTING CAMS TOGETHER WITH CLOSURE OF "U" BAR CONTACTS. CAN SEND KEYBOARD AND PERFORATE TOGETHER, ALSO CAN USE T.D. BUT NOT SIMULTANEOUSLY WITH KEYBOARD.
TAPE POSITION - ALL PERF. CONTROL CONTS. CLOSED, TRIP-OFF PAWL HELD DOWN PREVENTING KEYBOARD SENDING, OPERATION OF ANY KEY LEVER MOVES UNIVERSAL BAR DOWN CAUSING U-BAR CONTS. TO CLOSE WHICH ENERGIZES PUNCH MAGNET TO PERFORATE TAPE. REPEAT SPACE MECHANISM DISABLED. CAN TRANSMIT FROM TRANS. DIST. ONLY.
14. REFER TO BSP SECTION P30.018 FOR TYPE OF POWER CORD TO BE USED AND FOR INFORMATION AS TO WHEN POTENTIAL GROUND IS REQUIRED.
15. SEE BSP SECTION P81.163 FOR INFORMATION ON USE OF 1000 OHM SHUNT FOR HOLDING MAGNET TYPING UNITS. NOT REQUIRED WITH PULLING MAGNET TYPING UNITS.
16. LINE RELAY MOUNTING UNIT IS NOT PROVIDED ON 18C BASES. WHEN IT IS NECESSARY TO USE A LINE RELAY INSTALL A NO. 51788M SET OF PARTS AND APPLY PLAN ME.16, BSP P30.413. ALSO THE (R4) RESISTANCE (8000 OHMS) MUST BE STRAPPED FOR 60 MIL OPERATION.
17. A LINE RELAY SHALL BE USED IN THE TELETYPEWRITER WHEN A PULLING MAGNET IS USED.
18. PERF-TRANS OF LATER MANUFACTURE ARE EQUIPPED WITH THE 112570M CAM PULSING CONTACTS HAVING ONLY ONE SET OF CONTACT SPRINGS OPERATED FROM CAM NO. 5.

COLLINS RADIO COMPANY CEDAR RAPIDS DIVISION

COLLINS

Cedar Rapids, Iowa 52406 telephone: area code 319, 365-8411 cable: COLINRAD

July 23, 1964

Mr. Merrill Swan
RTTY, Inc.
372 Warren Way
Arcadia, California 91007

Dear Merrill:

Word came to us the other day from an RTTY enthusiast that he had contacted you and you apparently did not yet have information to key the 32V-3.

Enclosed are a couple of circuits, one of which employs a 6AL5 Tube and the other a pair of 1N34 diodes which have been sent in to us by customers who claim they work adequately.

Inquiries about RTTY seem to be increasing and I refer each to you; I hope it has helped the circulation of your magazine. If we can assist you at any time, please feel free to get in touch with us.

Very truly yours,

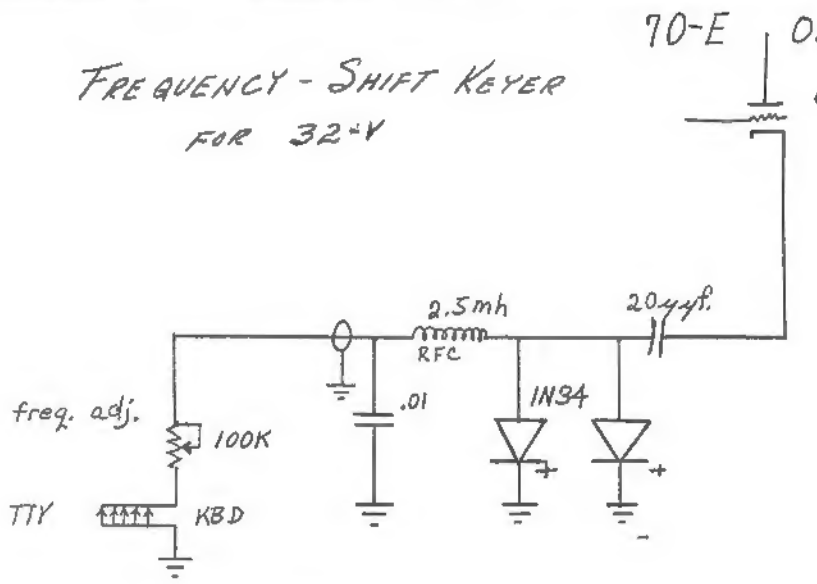
Doug

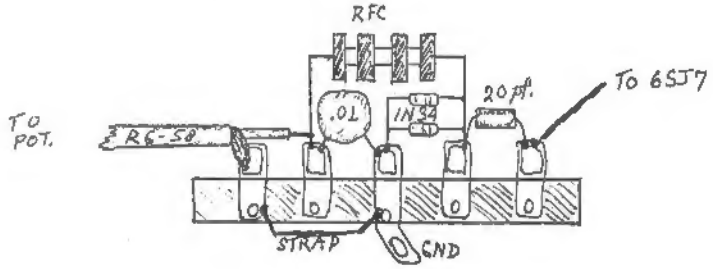
Doug Horner - W0HUF
Service Engineer
Amateur Radio Sales

km

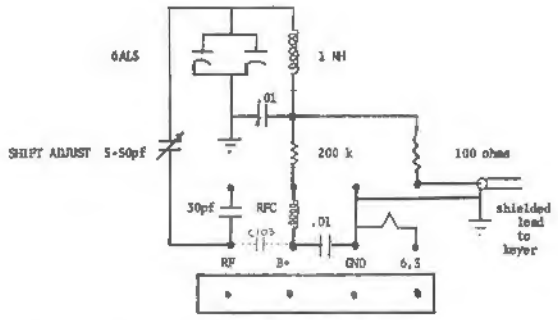
Enclosure

FREQUENCY - SHIFT KEYER FOR 32-V





FSK ADAPTER UNIT FOR COLLINS 310 AND 32V TRANSMITTERS



PLUG ON 70E-8 OSCILLATOR

The Collins 310 and 32V Transmitters use the type 70E-8 oscillator. The 6AL5 socket can be mounted in the top of the adapter which plugs into the oscillator. While making the conversion remove the condenser between the RF and B+ terminals(C103). The frame of the teletype machine should be well grounded.

SURPLUS BAND PASS FILTERS

Recently several of these fine filters have appeared in various places. The circuit shown below provides a means of incorporating them in your NEW TU design. A few details are given below, and will guide those who have been fortunate enough to obtain a pair of these fine filters. They are identified by numbers stamped on the cover. 673-0397-00 thru 673-0920-00, and were manufactured for the Collins Radio Company.

GENERAL REQUIREMENTS

This specification covers a series of telegraph tone filters (receive) and their associated discriminator networks hermetically sealed in a common package.

ELECTRICAL CHARACTERISTICS

Filter Section

Center Frequency: The center frequency as listed in the table above by definition, is the 0 DB reference. The difference in attenuation at the frequencies 30 CPS above and 30 CPS below the center frequencies shall be less than 2 DB.

Power Level: —45 DBM to 0 DBM input.

Insertion Loss: 11 DB maximum at center frequency.

Frequency Response:

35 CPS either side of center frequency—no more than 3 DB down.

70 CPS either side of center frequency—down at least 20 DB.

90 CPS either side of center frequency—down at least 45 DB.

At frequencies greater than 90 CPS either side of center frequency—down at least 45 DB. The filters shall meet this frequency response when operated individually or with any combination of filter inputs connected in parallel.

Impedance:

Input: 600 ohms nominal at center freq.
Output: 600 ohms.

The performance of the Band-Pass Filters shall meet the requirements defined herein when operating between a 600 ohm source and a 600 ohm load. The filters shall meet the requirements of this specification when the filters are operated in parallel. The input impedance shall be nominally 600 ohms in band and of large enough value out of band so as to have neglible effect on all other filters when inputs are connected in parallel.

Discriminator Section: The discriminator shall be as shown in the schematic with the phasing as shown.

Drive: The drive to the primary shall be 9 V RMS minimum and 14 V RMS maximum. The driving impedance is non-linear, varying from approximately 1500 ohms to open-circuit.

Dynamic Characteristics: With a frequency shift of input signal of ±30 CPS from center frequency, shifted with a symetrical square wave of 30 CPS, the discriminator output shall be 0.7 volts peak to peak minimum. When operated in the test circuit shown.

Shielding: The filter network shall be isolated from the discriminator to the following extent. With the filter input and output terminated in 600 ohms, and signal of 14 volts BMS at +30 CPS and —30 CPS from center frequency applied to the discriminator input, any signal introduced into the filter shall be less than —60 DBM.

The following is an up-to-date roster of the WAC-RTTY awards in the order they were issued:

1. VE7KX
2. W6CG
3. K6OWQ
4. W6AEE
5. W7LPM
6. W2RUI
7. W2JAV
8. W6TPJ
9. G3CQE
10. W6LIP
11. W7ESN
12. W8JIN
13. K3GIF
14. W5BGP
15. WØNFA
16. W8UUS
17. TG9AD
18. KR6MF
19. K4JXG
20. W7FEN
21. W6FYM
22. W1BGW
23. ZS6UR
24. VK3KF
25. VE4BJ
26. WØPHM/4
27. I1RIF
28. DL6EQ
29. WØFQW
30. W6UGA
31. W9HJV
32. W5CME
33. K8DKC
34. W3DJZ
35. WB2CVN
36. W6JOX
37. VK4RQ
38. DL1VR
39. DL3IR
40. W5SH

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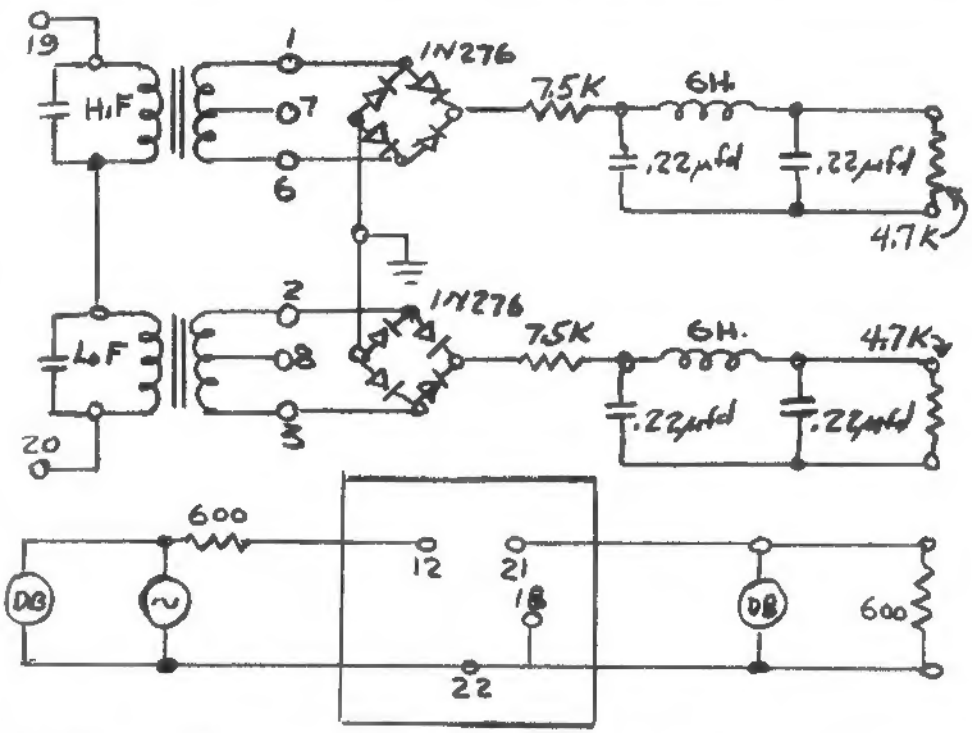
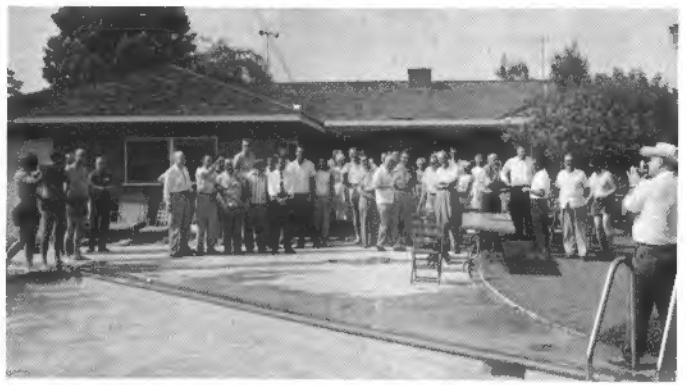
For "RTTY" Information:
W6DEO W6CG W6TPJ W6AEE



ANNUAL RTTY MEETING AT W6AEE's HOME, AUGUST 8, 1964



FOURTH ANNUAL WORLD-WIDE RTTY SWEEPSTAKES

THIS IS A COMPETITION BETWEEN ALL STATIONS THROUGHOUT THE WORLD TO DETERMINE THEIR ABILITY TO EXCHANGE MESSAGES VIA TWO-WAY RADIO TELEPRINTER.

1. TEST PERIOD:
   0200 GMT Oct. 17th to 0200 GMT Oct. 19th, 1964.
2. BANDS:
   This test will be conducted in the 3.5, 7.0, 14.0, 21.0, and 28.0 MCS amateur bands.

DX-RTTY

Bud Schultz, W6CG

5226 N. Willmonte Ave., Temple City, Calif. 91780

Greetings:

My family doctor is a very understanding gentleman but disgustingly unsympathetic about the importance of RTTY in my life. As a result--he took me out of circulation for the past five weeks and I find myself starting this column from scratch. If you're willing to take potluck with me, let's get started on the mail bag. For openers here's the monthly report from ED, K3GIF, which was delivered personally by Irv, K8DKC. Ed says that UL1AA understands that there is an active RTTY station operating out of Bolivia (CP) and Horacio is making a sked with the fellow thru another CP ham. No call letters were mentioned but will try to have more on this one for next month's blast. Ed also reports that due to Horacio's efforts PY2BCD of San Paulo is back on RTTY with a fine S-9 signal. Those of you who missed out on PY1KU and PY2BCD a couple of years ago should be on the watch for Eduardo on 20 meters around 0100 GMT. Jean, FG7XT, reports printing a weak signal around midnight on 20 signing "VQ8" so was unable to identify the station as to location. This is in the Mauritius-Chagos area and should be worth digging for. Europeans have recently been hearing ZS6ARL from Johannesburg and F8KI managed a QSO with him. K3GIF worked Claude, F2FO for a new one recently. Claude runs a homebrew rig with an 811A in the final and has a good signal into the States. Other new European stations now active include G3HKR and I1AHN. Sergio, I1AHN, runs 500 Watts to the final and comes thru like gangbusters! One day recently I left the printer running unattended on 14095 for about an hour around 1900 GMT. When I returned to check it out I discovered I had printed an almost letter-perfect QSO between John, G3HKR, and Rene, DL3IR!! Hope these kind of conditions continue out here on the Coast thru the Sweepstakes contest.

Jean, FG7XT, recently spent several days visiting the shack of K3GIF and as a result I am happy to be able to report the following DX scoop. Jean is planning a DXpedition to several of the Islands in the Caribbean to start about the first of September. He will operate from St. Martin, St. Bartholomew, Aruba, possibly Curacao and several other smaller islands between Puerto Rico and the YV Coast. He has ordered a tiny Siemens tape printer through Herb, DL1VR, and secured a small TU from Frank, W3PYW, for the expedition. Jean will use a KWM-2 and possibly a small linear and get his power from a 1KW kicker,. Jean will do his Island hopping in a Piper Apache owned by another ham in FG7 land. The beam and rotator have already been flown to St. Martin Island. It will take a couple of trips each time to get the beam, etc. from island to island, but Jean is confident he can pull the deal off in good shape. To the best of my knowledge this is the first "RTTY only" DXpedition in history and surely merits the moral support of all of us so start watching for Jean about the time this issue reaches your mailbox.

Just received a note from Arnold, KW6DS, telling of his trip to the Worlds Fair. He says he is getting ready for the contest in October and is back on the air from Wake Island every Sunday. Merrill, W6AEE, reports that the "down under" gang are still showing up quite regularly every weekend. Merrill says that VK3KF, ZL1WB, VK4RQ have been joined by Alec, ZL3HJ, who is apparently back in operation from the same old stand that he left many months ago.

I am going to use some of the space this month to publish the WAC-RTTY Award list that I have promised to do for the past six months! Hope it will goad some more of you to get your confirmations in to this office so we can add your call to the honor roll. We always do a big business in the WAC department in the weeks following the Sweepstakes Contest so we are already tooled up for the big push. Send your cards either directly to me or to the RTTY editor and they will be returned as soon as they are accredited by the committee.

I am leaving on an extended vacation in the next few days so am going to ask Ed, K3GIF, to handle the DX chores for the next issue. Please help out by sending your DX news to him for the next month. Thanks a million!! Hope to see all of you back here again in a few weeks.

Cheers & 73

Bud, W6CG

. . . (continued)

FOR SALE: Model 15, and Model 19 complete. Also 14 TD and Typing reperf. FRXD Write for information. Free: reproductions of 19 circuit diagrams, send stamped envelope. WA9HDG, Orchard Hill Farm, Tinley Park, Ill. 60477.

FOR SALE: Collins 51J4 receiver like new, $800. First check or money order. Gonset G-50, $175. Like new Model 14 KBD reperf, $60. Excellent condx. KP4GN, P.O. Box 532, Guayama, Puerto Rico 00655.

FOR SALE: RTTYers Attention! 88 and 44 mhy toroids $1.75 for 5. Send for list of other RTTY gear. W6VPC, 1067 Mandana Blvd., Oakland, Calif. 94610.

FOR SALE: Model 15 Teletype with table, excellent condx. $80.00. Will accept TT63A Regenerator repeater on trade in. W1OHF, Honeyhill Road, Norwalk, Conn.

FOR SALE: Model 26A Type keyboard, K3GYS, 1610 South Iseminger Street, Philadelphia, Pa. 19148.

WANTED: Back issues of the RTTY Bulletin as follows: Vol. One, Numbers 2, 4, 5, 8, 11, 12. Vol. Two, Numbers 1, 5. W2TAM, 140 Summit Avenue, West Trenton, N. J. 08628.

WANTED: Back issues of RTTY as follows: October 1956, May 1957, July 1957, June, August, November 1960. January 1957, October 1954, July 1955. W9IQX, P. O. Box 46, Northbrook, Illinois.

WANTED: Page printer and AFSK TU unit complete with polar relay, loop supply and meters. Both must be in excellent condition. WN0IPL, 3915 Sixth Ave., Des Moines, Iowa 50313.

FOR SALE: Clearing out sale AN/FGC-1 Radioteletype Converters $50.00 Used. New with spare parts $125.00. ALA-2 Panadapters with free conversion instructions $29.95. 19" x 72" Open racks and enclosed racks, new and used, as low as $12.50. Write for free list. GULF ELECTRO SALES, INC., 7031 Burkett, Houston, Texas 77021.

FOR SALE: 14 Non typing complete, $49.95, less base and cover $29.95. 14 Typing reperf with keyboard, complete $75.00. FRXD3 reperf and TD combo nontyping $65.00. 15 with keyboard, complete $79.50, less keyboard $69.50. TD complete $49.50. 19 complete with table and TD $149.50. 15 metal tables $15.00. TS383A/GG Distortion test set $250.90. All above machines have communications keyboards and synch motors and are 60 wpm for Ham use. These units sold untested and apparently complete. Add 35 percent for complete overhaul, cleaning and adjustment, for full guarantee. Columbia Electronic Sales, Inc., 4365 W. Pico St., Los Angeles 90019. Telephone WE. 8-3731.

WANTED: Line Feed function arm for model 28 Teletype, part number 90463. Also need cover and tape reel for 14 typing reperf. W8SDZ, 4626 Rambo Lane, Toledo, Ohio 43623.

WANTED: Tuned filter from BC-733, ready for use in RTTY. W6NRY, 4618 Center, Baldwin Park, Calif. Phone 337-3805.

WANTED: Model 14 tape reel, cover and bracket. W6NSH, 10245 Faywood Ave., Bellflower, Calif.

FOR SALE: Regency Transistor converter, 80-10 meters, also mobile antenna for 80-40-20 meter. WB6BZC, 772 W. Tenth, San Bernardino, Calif.

WANTED: R-390A/URR Receiver, cash or trade, TTY 14, 15, 19, 28. W6YJG, 1302 Pine Street, Santa Monica, Calif.

FOR SALE: Model 15 KSR with table, pwr supply, sync motor and comm type, $60.00; Model 14 keyboard-typing reperf with comm type and sync motor, $40.00; Model 14 TD with sync motor, $35.00; 2 Model 14 kybd strip printers with table, financial type (fractions), and sync motor, $25.00 each. 1 model 15 keyboard with financial keytops, $5. 1 model 14 typing reperf base with reel, $5. All machines are 60 speed, but 75 speed gears are included with 15-KSR and 14 reperf. Gerald Murphy, 2547 18th Avenue, San Francisco, Calif. 94116.

FOR SALE: Model 15 Teletypewriter, 60 cycle motor, table, cover, for $110.00. W8DFA, 29 Vernon Ave., Elm Grove, Wheeling, W. Va.

FOR SALE: Model 15, with model 19 kybd, perforator, etc. Excellent cover, DC pwr supply, needs capacitors, instruction manual, printed circuit 5 Transistor converter and monitor unit all on one aluminum chassis, monitor uses 3BP1, needs some work, all schematics included. First $100.00 F.O.B. J. E. Flick, 2314 Rittenhouse Street. W. Hyattsville, Maryland 20782.

FOR SALE: Tech manuals, TM 11-2225, TT-76, $3.00. TM - 11 - 5815 - 200 AN/FGC 20X, $3.00. TM-11-5815-206 AN/PGC-1 and TT-4/TG $3.00. All four TMs $10.00. Three 60 cps TTY motors $6.50 each. Three junction boxes for M-15 tables, $4.50 each. One M-15 keyboard, needs work $7.50. One M-15 Keyboard $12.75. One M-19 and two M-15 machines, KL7END/6, 5032 West 119th Street, Hawthorne, California.

FOR SALE: 15 printer, 60 wpm, sync w/19 kybd, $100.00; 15 printer, 60 wpm sync, extra clean, $85.00; 15 printer as above w/auto LF/CR, $100.00; 14TD, 60 wpm, sync, $65.00 w/tape-out, tight tape; 14 TD as above BRAND NEW, $95.00; 60 wpm Teletype Test tape (magnetic); RY's, Foxes, total kbd, tones 2125-2975, both low space and low mark (upside down) 3.75" IPS 15 minutes, $2.00; 88 mhy toroids 50¢ each, 5/2.00. K5BQA, 11040 Creekmere, Dallas, Texas 75218.

FOR SALE: Two model 15 machines, aluminum, 30-60 mil type, machines like new with HAM keytops and palletts. Heathkit six meter sideband rig and linear, expertly wired, works FB. 14 typing reperf w/end of line light, $75. W6OJF, 9337 Gotham, Downey, California.

FOR SALE: Model 28 Teletypewriter, sending-receiving 60 wpm, capable of 75 and 100 wpm wire or radio circuits. Page printer automatic typer, console and sync motor, not tested, used $250.00. Atlantic Surplus Sales, 181 Sackett Street, Brooklyn, N. Y. 11231.

NOTE: Sorry to take so much space, but it's hard to not print the above info, when it may help get someone started with RTTY.—Ed.

CORRECTION

Apologies are in order to BEN F. WAPLE, Secretary of Federal Communications Commission for the typographical error mis-spelling his name